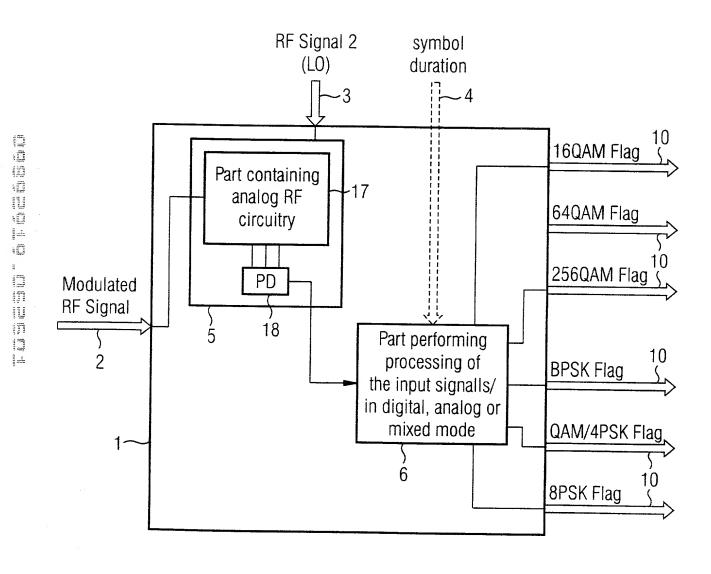
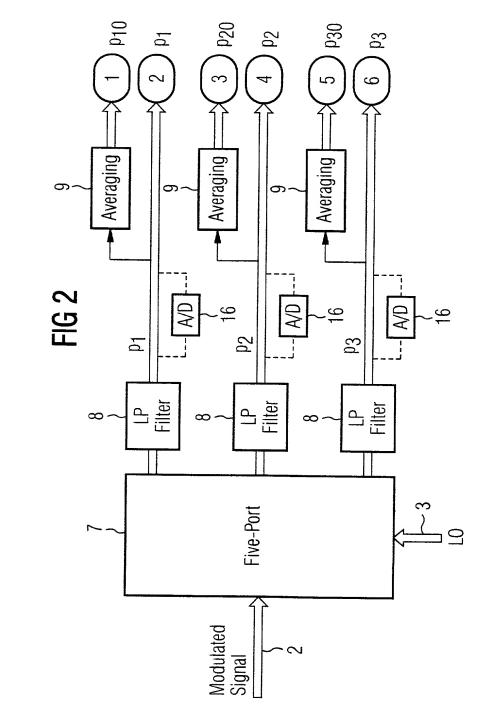
FIG 1





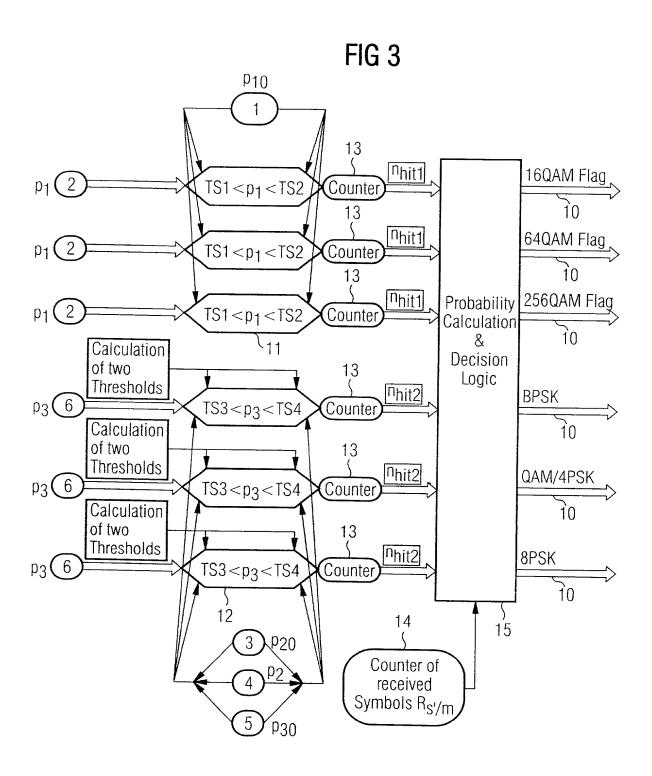


FIG 4

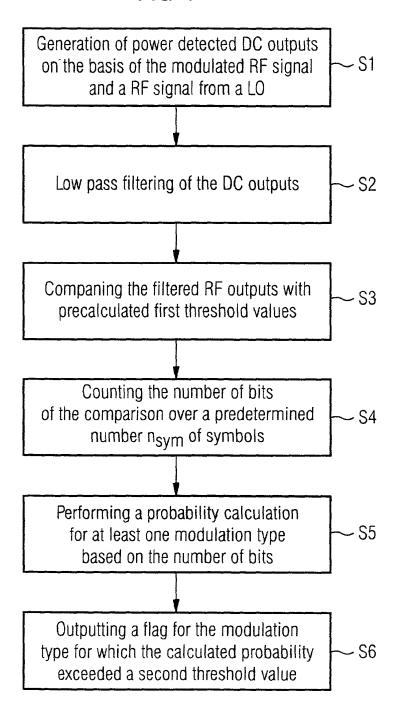


FIG 5a

| 64QAM  |  | 16QAM  |  |
|--|--|--|--|
| $I/\overline{I}+Q/\overline{Q}i$   | p <sub>1</sub> /p <sub>10</sub>  | $1/\overline{1}+Q/\overline{Q}i$   | p <sub>1</sub> /p <sub>10</sub>  |
| 0.2500 + 0.2500i<br>0.2500 + 0.7500i<br>0.2500 + 1.2500i<br>0.2500 + 1.7500i<br>0.7500 + 0.2500i<br>0.7500 + 0.7500i<br>0.7500 + 1.2500i<br>0.7500 + 1.7500i<br>1.2500 + 0.2500i<br>1.2500 + 1.2500i<br>1.2500 + 1.7500i<br>1.7500 + 0.2500i<br>1.7500 + 0.7500i<br>1.7500 + 1.2500i<br>1.7500 + 1.2500i<br>1.7500 + 1.2500i | 0.0476<br>0.2381<br>0.6190<br>1.1905<br>0.2381<br>0.4286<br>0.8095<br>1.3810<br>0.6190<br>0.8095<br>1.1905<br>1.7619<br>1.1905<br>1.3810<br>1.7619 (r <sub>2</sub> )<br>2.3333 (r <sub>1</sub> ) | 0.5000 + 0.5000i<br>0.5000 + 1.5000i<br>1.5000 + 0.5000i<br>1.5000 + 1.5000i | 0.2000<br>1.0000<br>1.0000 (r <sub>2</sub> )<br>1.8000 (r <sub>1</sub> ) |

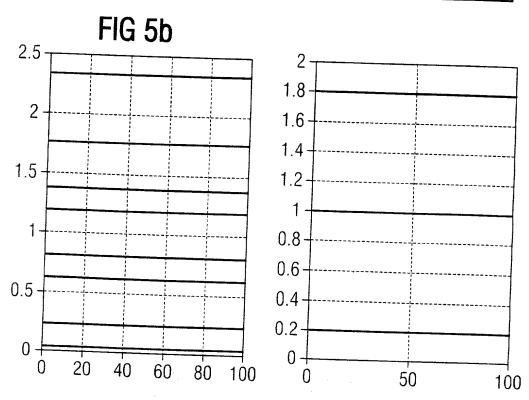


FIG 6

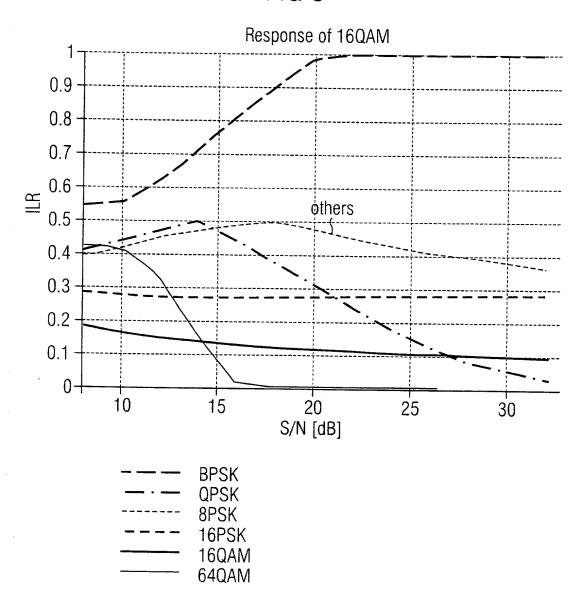


FIG 7

